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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,637	05/19/2004	Ting-Jui Chang	11121-US-PA	3636

31561 7590 07/18/2006

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI, 100
TAIWAN

EXAMINER

CHIEN, LUCY P

ART UNIT PAPER NUMBER

2871

DATE MAILED: 07/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/709,637	Applicant(s) CHANG, TING-JUI	
	Examiner Lucy P. Chien	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-14 is/are rejected.
- 7) ☒ Claim(s) 8 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/6/06</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claim 1-8 have been considered but are moot in view of the new ground(s) of rejection.

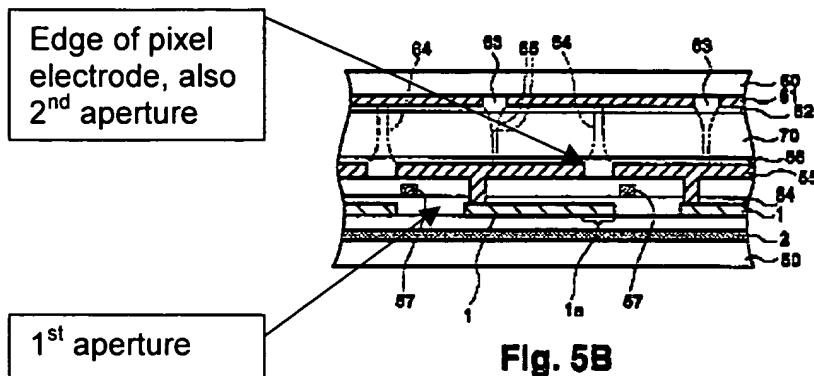
Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-4,6,7,9,10,12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Nishikawa et al (US 6278503).

Regarding Claim 1,9.

Nishikawa discloses (Figure 5A,5B) a base plate a plurality of gate lines (51) disposed over the base plate, plurality of data lines (57) disposed over the base plate, wherein a pixel area (55) is formed between any two adjacent gate line (51) and any two adjacent data line (57), a plurality of active devices (TFT) disposed over the base plate, wherein each active device (TFT) is formed in an intersection region between the gate line (51) and data line (57) and electrically connected to corresponding gate line (51) and data line (57), a plurality of storage capacitors (1) has an upper electrode (1) having at least a first aperture (shown below). And a plurality of pixel electrodes (55) disposed over the pixel area, wherein each the pixel electrodes (55) is respectively electrically connected to the corresponding active device (TFT) and the corresponding upper electrode (1) and the upper electrode of each storage capacitor is located underneath an edge of the corresponding pixel electrode (shown below)

Regarding Claim 2,

Nishikawa discloses (Figure 5A,5B) the gate lines (51) are formed in parallel over the base plate and the data lines (57) are formed in parallel over the base plate and the gate lines (51) are perpendicular to the data lines (57) formed in order to complete the liquid crystal display.

Regarding Claim 3,

Nishikawa discloses (Figure 5A,5B) the active devices (TFT) comprise thin film transistors (TFT).

Regarding Claim 4,10

Nishikawa discloses (Figure 5A,5B) the pixel electrodes (55) comprise transparent electrodes (Column 1, rows 33-34).

Regarding Claim 6,12

Nishikawa discloses (Figure 5A,5B) wherein the upper electrode (1) is disposed over a portion of the gate line (51) occupied area to form a storage capacitor (Column 1, rows 25-30).

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Regarding Claim 7, 13,

Nishikawa discloses (Figure 5A,5B) a plurality of common lines (2) formed between gate lines (51) and upper electrode (1) is disposed over a portion of the common line (2) occupied area to form a storage capacitor.

Regarding Claim 14,

Nishikawa discloses (Figure 5A,5B) wherein each of the pixel electrodes (55) further comprises at least a second aperture (shown above) when the first aperture (shown above) is located underneath the pixel electrode (55) and the second aperture is formed above the first aperture.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5,11, are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishikawa et al (US 6278503) in view of Lee et al (US 20040257488).

Nishikawa et al does not disclose the use of a reflective electrode.

Lee et al discloses the use of a reflective electrode (Page 14, [0254]) to make the LCD a reflective display.

It would have been obvious to one skilled in the art to modify Nishikawa et al's display to include Lee et al's pixel electrode being reflective to provide a reflective display (Page 14, [0254]).

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Nishikawa discloses (Figure 5A,5B) wherein each of the pixel electrodes (55) further comprises at least a second aperture (shown above) when the first aperture (shown above) is located underneath the pixel electrode (55) and the second aperture is formed above the first aperture.

Nishikawa does not disclose the second aperture formed directly above the first aperture.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lucy P Chien
Examiner
Art Unit 2871


ANDREW SCHECHTER
PRIMARY EXAMINER